



Report No.: XCL-AC202604-0026

TEST REPORT

Product Name: Bluetooth Antenna

Model: AB5305B-AT

Test Sort: External Commission Test

Client: Soundking Electronics & Sound Co.,Ltd

Test by: Xingci Lab

GUANGDONG XINGCI TESTING TECHNOLOGY RESEARCH Co.,Ltd.



Announcement

1. This report is invalid without seal.
2. This report must not be partially duplicated without permission.
3. The manufacturer would be responsible for the test samples.
4. Xingci Lab would be only responsible for report items of the test sample, this test result is only used for scientific research, teaching, and internal control, and does not have a proof function to the society.
5. If the client has any question about the test report, please contact our lab as agreed within 15 days. Disagreement couldn't be accepted over 15 days.
6. Test report inquires telephone No.:+ 86-757-87744743

Add: No#4, Jinye 2nd road, Yundonghai street, Sanshui, Foshan,Guangdong
Province, China,528100

Tel: 0086-(0757)-87744743

Post Code: 528100

Test Report

Product Name		Bluetooth Antenna		Manufacture Date		/	
Product Model		AB5305B-AT		Brand Name		/	
Client	Name	Soundking Electronics & Sound Co.,Ltd					
	Address	818# Chengxin Road, Yinzhou Investment Industry, Ningbo City, Zhejiang Province,,China					
Test Type		External Commission Test					
Test Place		SG64 Anechoic Chamber (Guangdong Xingci testing technology research Co.,Ltd.)					
Sample Qty		1pc		Test Date		Apr. 18, 2026	
Test Environment		Temperature: (20~22) °C		Relative Humidity: (63~66) %			
Test Item		Electrical performance: Radiation Pattern, Gain, Efficiency ,VSWR					
Test Standard		According to the client's requirements, refer to the following standard: IEEE Std 149™-2021 IEEE Recommended Practice for Antenna Measurements					
Test Description		Guangdong Xingci testing technology research Co., Ltd. tested the electrical performance of 1pc of Bluetooth Antenna under the guideline of relevant standard. Please see test result in page 5, Radiation Patterns in pages 6-8, VSWR in page 9.					
Remarks		AB5305B-AT is the general model name for the antenna and can be used on different versions of the circuit board.					
Tested by: Guanzhiliang Date: Apr. 18, 2026		Checked by: Zhang Xiao Jun Date: Apr. 27, 2026		Approved by: (Authorized signatory)  Date: Apr. 27, 2026			

Sample Description

Accessories	☒ No ☐ Yes:
Outlook/Appearance	☒ Qualified ☐ Unqualified:
Status at the beginning of Test	☒ Working Normally ☐ Working Abnormally:
Status after Test	☒ Working Normally ☐ Other:
Photograph	☐ No ☒ In pages 9-10
Remarks (Provided by the customer)	Antenna size: 14.4mm×4.7mm Antenna interface type: SMA-K

Sample Number

Item	Sample Number	Serial Number
1	AC2026041802	/

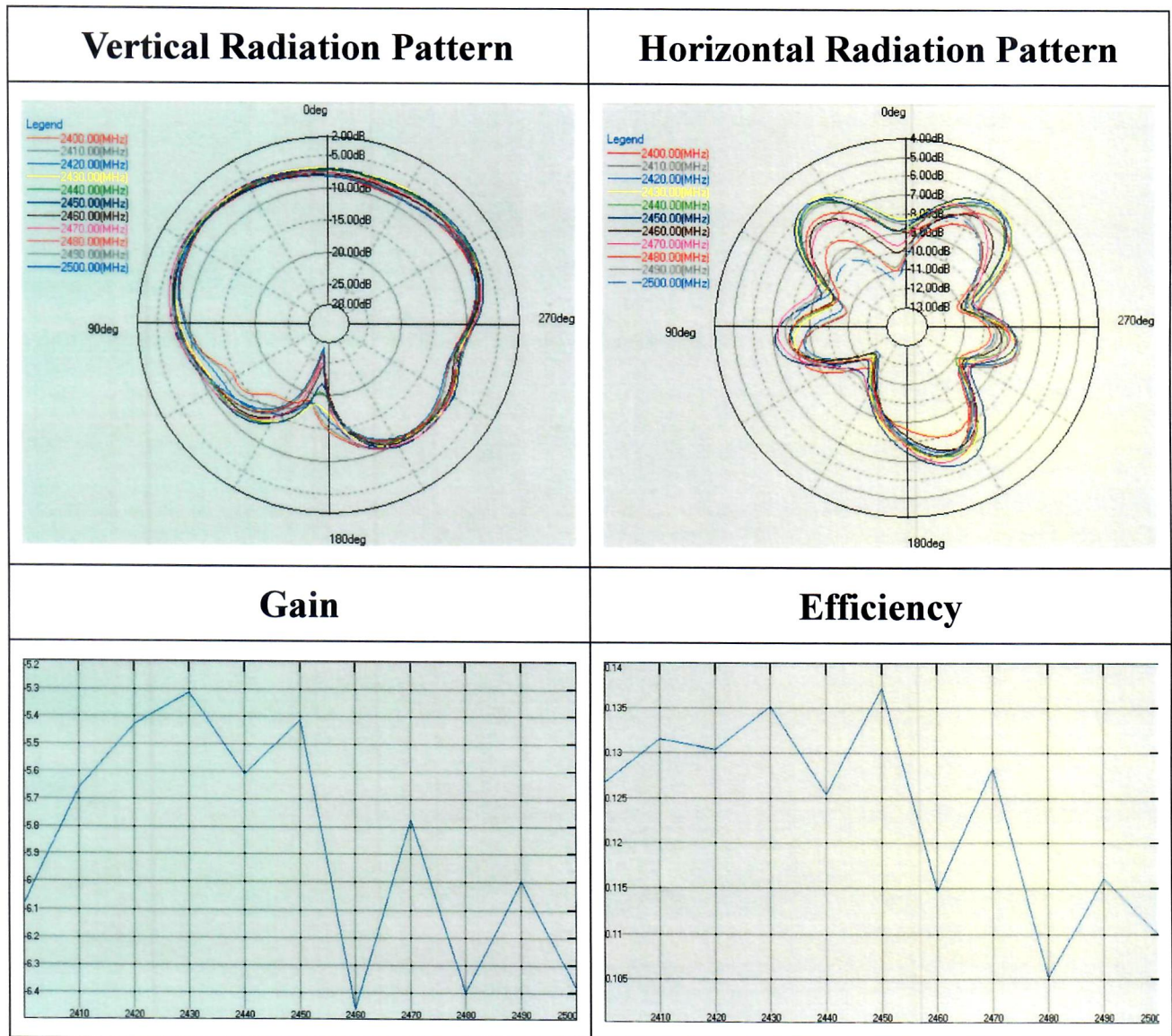
Electrical Performance Test Result

Item	Test Item	Technical Requirement	Unit	Test Frequency (MHz)	Test Result
1	Gain	/	dBi	2400	-6.08
				2410	-5.66
				2420	-5.43
				2430	-5.31
				2440	-5.61
				2450	-5.41
				2460	-6.46
				2470	-5.77
				2480	-6.40
				2490	-6.00
				2500	-6.39
2	Efficiency	/	%	2400	12.67
				2410	13.15
				2420	13.04
				2430	13.52
				2440	12.54
				2450	13.72
				2460	11.47
				2470	12.83
				2480	10.52
				2490	11.61
				2500	10.99
3	VSWR	/	/	2400-2500	7.89
4	Radiation Pattern	/	/	2400-2500	Pages 6-8

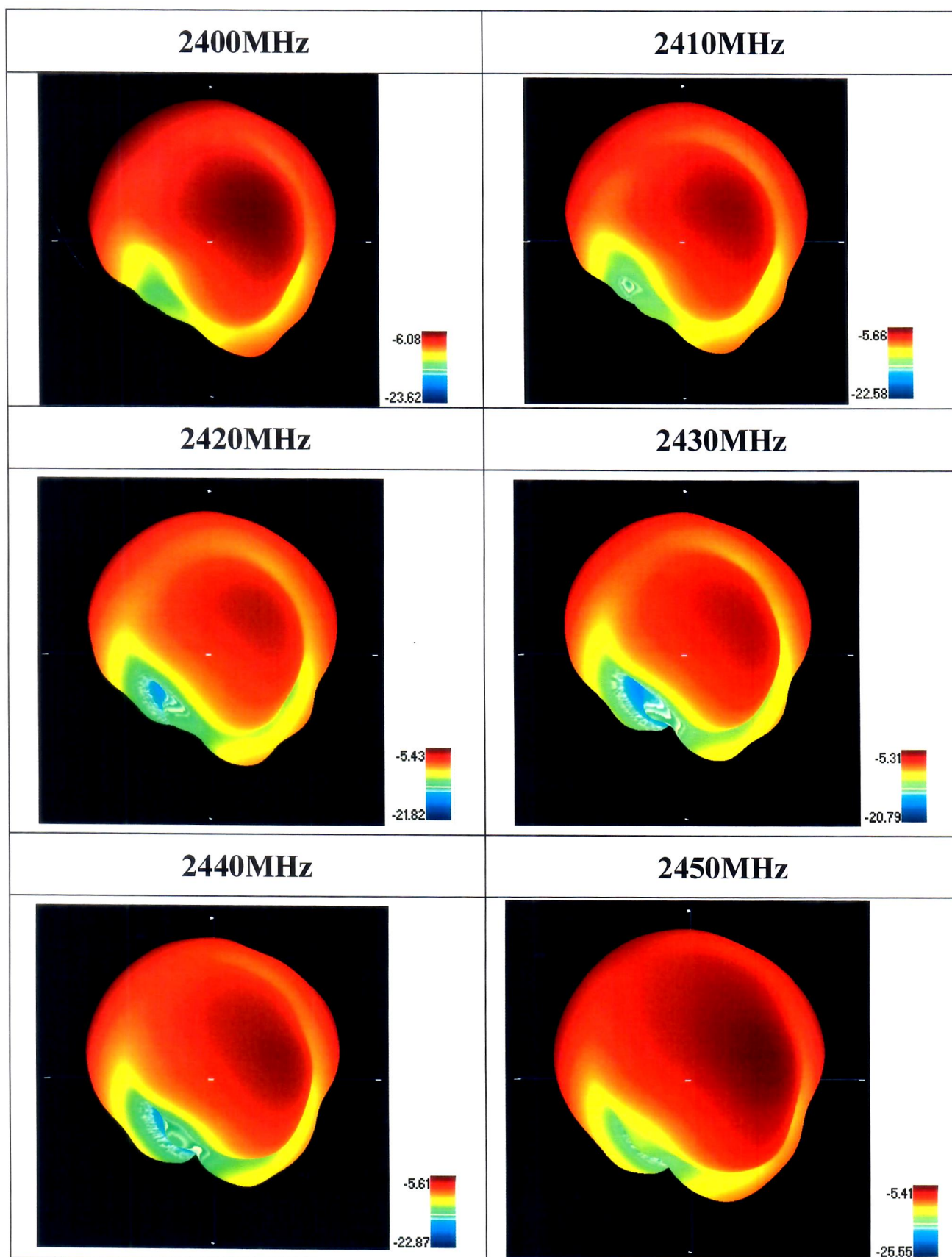
Note: Test Method: Near Field Measurement Method.

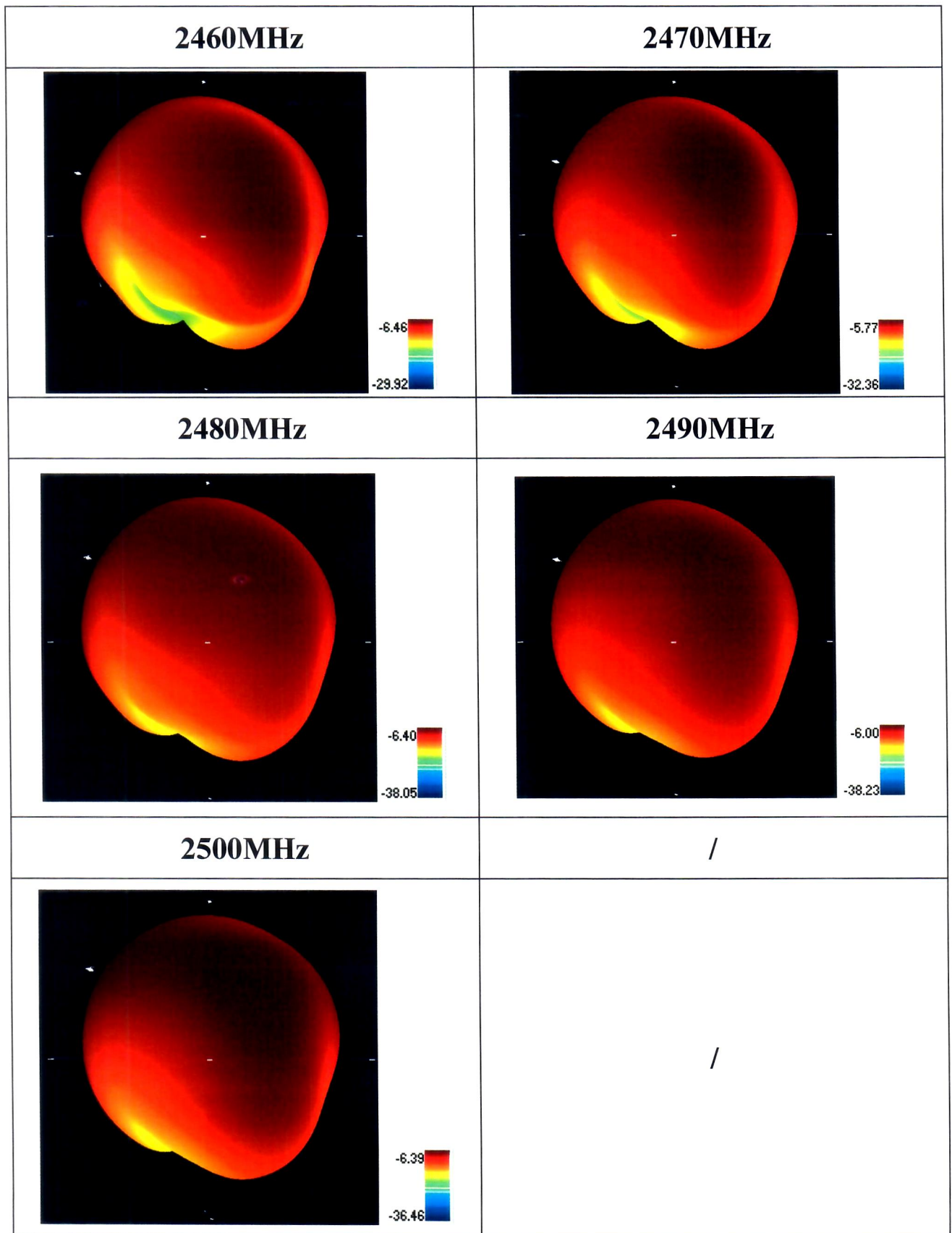
Radiation Pattern

2D

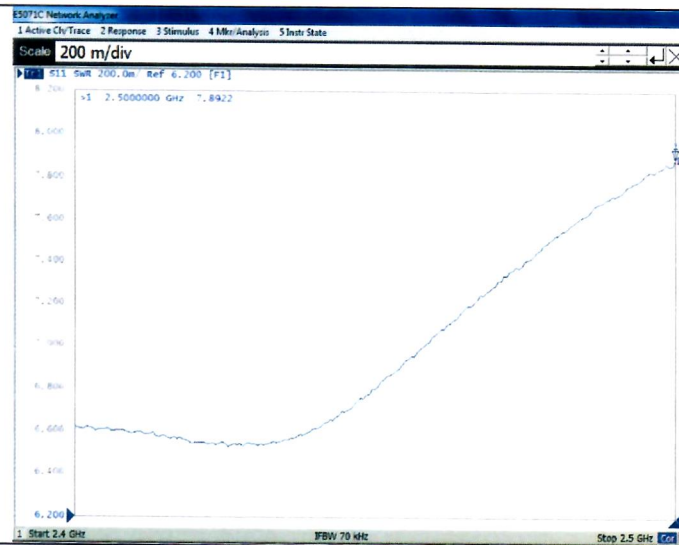


3D

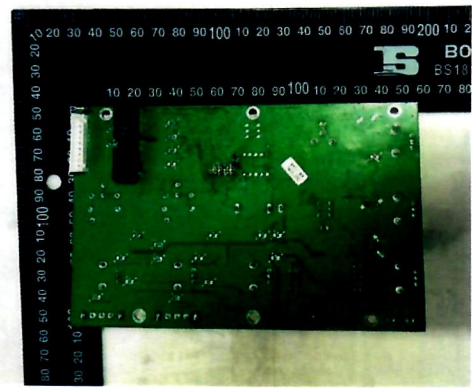
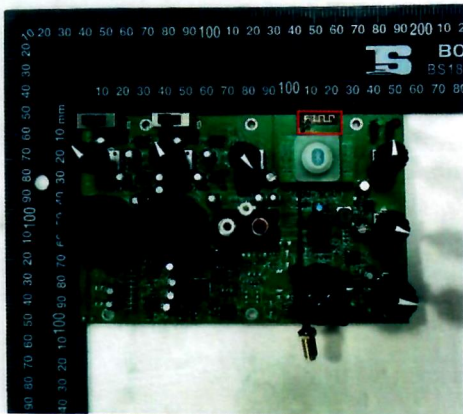




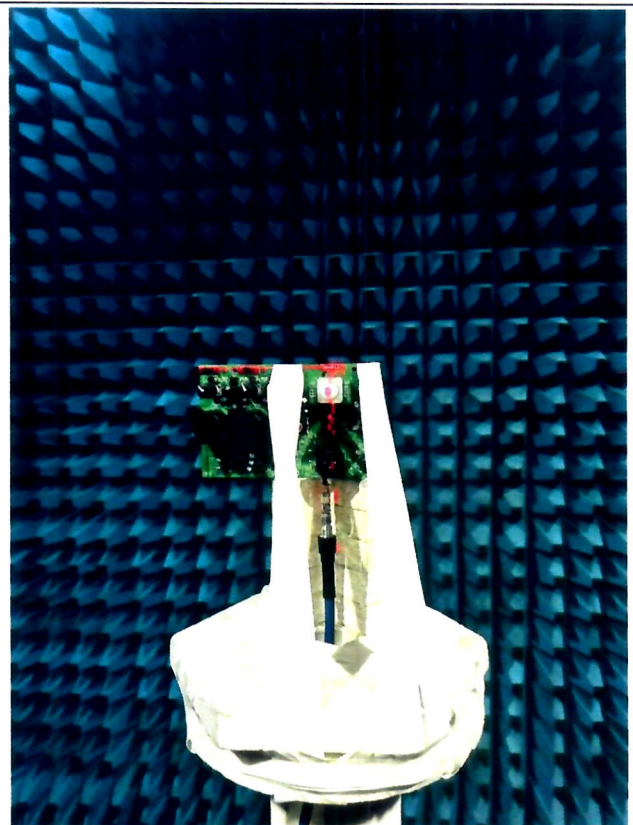
VSWR



Sample photo



Radiation Pattern Test site



VSWR Test site



Main instruments and equipment for testing and test system

No.	NAME	Model	SERIAL NUMBER	VALIDITY DATE (DD/MM/YY)
1	Analog Signal Generator	N5181A	XCRE034	03/03/2027
2	Analog Signal Generator	N5181A	XCRE035	16/03/2027
3	Standard Gain Antenna	SH400-440	XCA014	20/11/2026
4	ENA Series Network Analyzer	E5071C	XCRE038	28/07/2026
5	Microwave Anechoic Chamber	5m×5m×5m	XCC03	21/08/2026
6	SG64 Antenna Test System	SATENV 2.0.1.5 Build12	XCXT03	N/A

-----End of Report-----